1994 Chronological Listing

94001 **Cheng, W., Cheng, H. S.** and **Keer, L. M.**, "Experimental Investigation on Rolling/Sliding Contact Fatigue Crack Initiation with Artificial Defects,"**T37**, 1, 1-12.

94002 **Schritz, B., Jones, W. R. Jr., Prahl, J.** and **Jansen, R.**, "Parched Elastohydrodynamic Lubrication: Instrumentation and Procedure,"**T37**, 1, 13-22.

94003 **Wu, J-P.** and **Ovaert, T. C.**, "Effect of Asperity-Scale Tensile Stresses on the Wear Behavior of Normally Oriented Fiber-Reinforced Polymer Composites,"**T37**, 1, 23-32.

94004 **Yang, Z., San Andres, L.** and **Childs, D. W.**, "Dynamic Force Performance of Annular Gas Seals at Off-Center Conditions,"**T37**, 1, 33-42.

94005 **Carpino, M., Medvertz, L. A.** and **Peng, J-P.**, "Effects of Membrane Stresses in the Prediction of Foil Bearing Performance,"**T37**, 1, 43-50.

94006 **Cheng, W., Cheng, H. S.** and **Keer, L. M.**, "Longitudinal Crack Initiation Under Pure Rolling Contact Fatigue,"**T37**, 1, 51-58.

94007 **Dominguez, D. D., Mowery, R. L.** and **Turner, N. H.**, "Friction and Durabilities of Well-Ordered, Close-Packed Carboxylic Acid Monolayers Deposited on Glass and Steel Surfaces by the Langmuir-Blodgett Technique,"**T37**, 1, 59-66.

94008 **Furey, M. J., Ghasemi, H., Tripathy, B. S., Kajdas, C., Kempinski, R.** and **Hellgeth, J. W.**, "Tribochemistry of the Antiwear Action of a Dimer Acid/Glycol Monoester on Alumina,"**T37**, 1, 67-74.

94009 **Hoult, D. P.** and **Shaw II, B. T.**, "The Puddle Theory of Oil Consumption,"**T37**, 1, 75-82.

94010 **Nelias, D., Sainsot, P.** and **Flamand, L.**, "Power Loss of Gearbox Ball Bearing Under Axial and Radial Loads,"**T37**, 1, 83-90.

94011 **Peng, J-P.** and **Carpino, M.**, "Coulomb Friction Damping Effects in Elastically Supported Gas Foil Bearings,"**T37**, 1, 91-98.

94012 **Kondo, H., Seki, A.** and **Kita, A.**, "Comparison of an Amide and Amine Salt as Friction Modifiers for a Magnetic Thin Film Medium,"**T37**, 1, 99-104.

94013 **Rhode, D. L., Ko, S. H.** and **Morrison, G. L.**, "Leakage Optimization of Labyrinth Seals Using a Navier-Stokes Code,"**T37**, 1, 105-110.

94014 **Etsion, I.** and **Front, I.**, "A Model for Static Sealing Performance of End Face Seals,"**T37**, 1, 111-119.

94015 **Mizuhara, K., Akei, M.** and **Matsuzaki, T.**, "The Friction and Wear Behavior in Controlled Alternative Refrigerant Atmosphere,"**T37**, 1, 120-128.

94016 **Weick, B. L., Furey, M. J., Newman, H., Kajdas, C.** and **Hellgeth, J. W.**, "Tribochemical Changes of Nylon 6,6 and Nylon 6,6/Glass Rubbed Against Sapphire,"**T37**, 1, 129-137.

94017 **Wu, S.** and **Cheng, H. S.**, "Empirical Determination of Effective Lubricant Rheological Parameters,"**T37**, 1, 138-146.

94018 **Braza, J. F.**, "Ceramic Material Evaluation in Roller Follower Tests,"**T37**, 1, 147-153.

94019 **Jang, D. Y.** and **Choi, Y.**, "Analysis of the Correlation Between Tool Wear and Cutting Damping Generated in the Machining Process,"**T37**, 1, 154-160.

94020 **Michaelis, K.** and **Höhn, B-R.**, "Influence of Lubricants on Power Loss of Cylindrical Gears,"**T37**, 1, 161-167.

94021 **Wang, C. C. J., Duda, J. L.** and **Klaus, E. E.**, "A Kinetic Model of Lubricant Deposit Formation Under Thin Film Conditions,"**T37**, 1, 168-174.

94022 **Wang, S. S.** and **Tung, S. C.**, "A New Technique to Enhance Film-Coating Processes in Oil-Based Media,"**T37**, 1, 175-181.

94023 **Yamamoto, Y.** and **Gondo, S.**, "Environmental Effects on the Composition of Surface Films Produced by an Organo-Molybdenum Compound,"**T37**, 1, 182-188.

94024 **Salant, R. F., Wolff, P.** and **Navon, S.**, "Electronically Controlled Mechanical Seal for Aerospace Applications—Part I: Design, Analysis, and Steady State Tests,"**T37**, 1, 189-195.

94025 **Hayashida, K., Yamamoto, K.** and **Nishimura, M.**, "Wear and Degradation Characteristics of Perfluoropolyalkylethers (PFPEs) in High Vacuum,"**T37**, 1, 196-200.

94026 **Yust, C. S.**, "Fast Fourier Transform Analysis of Computer-Acquired Friction Data,"**T37**, 1, 201-205.

94027 **Yu, Q.** and **Keith, Jr. T. G.**, "A Boundary Element Cavitation Algorithm,"**T37**, 2, 217-226.

94028 **Simmons, J. E. L.** and **Dixon, S. J.**, "Effect of Load Direction, Preload, Clearance Ratio, and Oil Flow on the Performance of a 200 mm Journal Pad Bearing,"**T37**, 2, 227-236.

94029 **Blake, J. W.** and **Draper, C. F.**, "Further Development of a Predictive Pitting Model for Gears: Improvements in the Life Prediction Analysis,"**T37**, 2, 237-244.

94030 **Komiya, M., Matsuda, K.** and **Kaneta, M.**, "Experimental and Analytical Study on Thermocracking of Alumina Ceramic Ring in a Mechanical Seal,"**T37**, 2, 245-252.

94031 **Lacey, P. I.**, "Evaluation of Oxidative Corrosion in Diesel Fuel Lubricated Contacts,"**T37**, 2, 253-260.

94032 **Lovell, M. R., Khonsari, M. M.** and **Marangoni, R. D.**, "Experimental Measurements of the Rest-Slope and Steady Torque on Ball Bearings Experiencing Small Angular Rotations,"**T37**, 2, 261-268.

94033 **Sankar, T. S.** and **Tzenov, P. I.**, "On Friction and Motion Accuracy in Jewel Bearing,"**T37**, 2, 269-276.

94034 **Wang, Q., Cheng, H. S.** and **Fine, M. E.**, "Wear of Tin Coating and Al-Si Alloy Substrate Against Carburized Steel Under Mixed Lubrication,"**T37**, 2, 277-284.

94035 **Xu, S.**, "Experimental Investigation of Hybrid Bearings,"**T37**, 2, 285-292.

94036 **Chao, K. K., Toth, D. K.** and **Saba, C. S, "An Integrated Test Method for High-Temperature Liquid Lubricants: Dynamic Test,"T37**, 2, 293-298.

94037 **Erck, R. A., Nichols, F. A.** and **Schult, D. L.**, "Weibull Analysis Applied to the Pull Adhesion Test and Fracture of a Metal-Ceramic Interface,"**T37**, 2, 299-304.

94038 **Kimura, Y.** and **Shima, M.**, "A Fracture-Mechanics Approach to Ceramic Wear,"**T37**, 2, 305-310.

94039 **Centers, P. W.**, "Effect of Polydimethylsiloxane Concentration on Ester Foaming Tendency,"**T37**, 2, 311-314.

94040 **Rac, A.**, "Cavitation Wear Resistance of Engine Bearing Materials,"**T37**, 2, 315-318.

94041 **Wietzel, U.**, "Microgeometrical Cavitation in Oscillating Slider Contacts,"**T37**, 2, 319-322.

94042 **Ai, X.** and **Cheng, H. S.**, "The Influence of Moving Dent on Point EHL Contacts,"**T37**, 2, 323-335.

94043 **Baheti, S. K.** and **Kirk, R. G.**, "Thermo-Hydrodynamic Solution of Floating Ring Seals for High Pressure Compressors Using the Finite-Element Method,"**T37**, 2, 336-346.

94044 **Wang, Y. H.** and **Hahn, E. J.**, "Effect of Squeeze Film Damper Land Geometry on Damper Performance,"**T37**, 2, 347-357.

94045 **Naruse, C., Nemoto, R., Haizuka, S.** and **Yoshizaki, M.**, "Influence of Oil Viscosity, Chemical Oil Structure, and Chemical Additives on Friction Loss of Spur Gears (Concerning the Influence of Synthetic Oil and Mineral Oil),"**T37**, 2, 358-368.

94046 **Dellacorte, C.** and **Steinetz, B.**, "Tribological Evaluation of an Al_2O_3-SiO_2 Ceramic Fiber Candidate for High Temperature Sliding Seals,"**T37**, 2, 369-377.

94047 **Imado, K., Miyagawa, H., Miura, A., Ueyama, N.** and **Hirano, F.**, "Behavior of Traction Oils Under Impact Loads,"**T37**, 2, 378-386.

94048 **Jackson, A., Webster, M. N.** and **Enthoven, J. C.**, "The Effect of Lubricant Traction on Scuffing,"**T37**, 2, 387-395.

94049 **Chang, W-R.** and **Ling, F. F.**, "Theory of Life Prediction of a Viscoelastic Lubricating Surface Film,"**T37**, 2, 396-402.

94050 **Sankar, T. S.** and **Tzenov, P. I.**, "The Steady-State Dynamics of Jewel Bearing with a Free Ball,"**T37**, 2, 403-409.

94051 **Allen, D. L.**, "Effect of Composition and Physical Properties of Silicon Nitride on Rolling Wear and Fatigue Performance,"**T37**, 2, 410-414.

94052 **Burton, R. A.**, "The Effects of Wall Perturbations on Thermo-Turbulent Couette Flow,"**T37**, 2, 415-419.

94053 **Ettles, C. M., Dinc, O. S.** and **Calabrese, S. J.**, "The Effect of Frictionally Generated Heat on Lubricant Transition,"**T37**, 2, 420-424.

94054 **Morrison, G. L., DeOtte, R. E. Jr.**, and **Thames III, H. D.**, "Experimental Study of the Flow Field Inside a Whirling Annular Seal,"**T37**, 2, 425-429.

94055 **Lin, Z. G., Zhang, J. T, Yang, Y. Q., Qiu, C. W.** and **Zhuang, Y. Q.**, "The Experimental Study of Laser Microprecision Treatment of I.C. Engine Tappet,"**T37**, 2, 430-432.

1994 Chronological Listing

94001 **Cheng, W., Cheng, H. S.** and **Keer, L. M.**, "Experimental Investigation on Rolling/Sliding Contact Fatigue Crack Initiation with Artificial Defects,"**T37**, 1, 1-12.

94002 **Schritz, B., Jones, W. R. Jr., Prahl, J.** and **Jansen, R.**, "Parched Elastohydrodynamic Lubrication: Instrumentation and Procedure,"**T37**, 1, 13-22.

94003 **Wu, J-P.** and **Ovaert, T. C.**, "Effect of Asperity-Scale Tensile Stresses on the Wear Behavior of Normally Oriented Fiber-Reinforced Polymer Composites,"**T37**, 1, 23-32.

94004 **Yang, Z., San Andres, L.** and **Childs, D. W.**, "Dynamic Force Performance of Annular Gas Seals at Off-Center Conditions,"**T37**, 1, 33-42.

94005 **Carpino, M., Medvertz, L. A.** and **Peng, J-P.**, "Effects of Membrane Stresses in the Prediction of Foil Bearing Performance,"**T37**, 1, 43-50.

94006 **Cheng, W., Cheng, H. S.** and **Keer, L. M.**, "Longitudinal Crack Initiation Under Pure Rolling Contact Fatigue,"**T37**, 1, 51-58.

94007 **Dominguez, D. D., Mowery, R. L.** and **Turner, N. H.**, "Friction and Durabilities of Well-Ordered, Close-Packed Carboxylic Acid Monolayers Deposited on Glass and Steel Surfaces by the Langmuir-Blodgett Technique,"**T37**, 1, 59-66.

94008 **Furey, M. J., Ghasemi, H., Tripathy, B. S., Kajdas, C., Kempinski, R.** and **Hellgeth, J. W.**, "Tribochemistry of the Antiwear Action of a Dimer Acid/Glycol Monoester on Alumina,"**T37**, 1, 67-74.

94009 **Hoult, D. P.** and **Shaw II, B. T.**, "The Puddle Theory of Oil Consumption,"**T37**, 1, 75-82.

94010 **Nelias, D., Sainsot, P.** and **Flamand, L.**, "Power Loss of Gearbox Ball Bearing Under Axial and Radial Loads,"**T37**, 1, 83-90.

94011 **Peng, J-P.** and **Carpino, M.**, "Coulomb Friction Damping Effects in Elastically Supported Gas Foil Bearings,"**T37**, 1, 91-98.

94012 **Kondo, H., Seki, A.** and **Kita, A.**, "Comparison of an Amide and Amine Salt as Friction Modifiers for a Magnetic Thin Film Medium,"**T37**, 1, 99-104.

94013 **Rhode, D. L., Ko, S. H.** and **Morrison, G. L.**, "Leakage Optimization of Labyrinth Seals Using a Navier-Stokes Code,"**T37**, 1, 105-110.

94014 **Etsion, I.** and **Front, I.**, "A Model for Static Sealing Performance of End Face Seals,"**T37**, 1, 111-119.

94015 **Mizuhara, K., Akei, M.** and **Matsuzaki, T.**, "The Friction and Wear Behavior in Controlled Alternative Refrigerant Atmosphere,"**T37**, 1, 120-128.

94016 **Weick, B. L., Furey, M. J., Newman, H., Kajdas, C.** and **Hellgeth, J. W.**, "Tribochemical Changes of Nylon 6,6 and Nylon 6,6/Glass Rubbed Against Sapphire,"**T37**, 1, 129-137.

94017 **Wu, S.** and **Cheng, H. S.**, "Empirical Determination of Effective Lubricant Rheological Parameters,"**T37**, 1, 138-146.

94018 **Braza, J. F.**, "Ceramic Material Evaluation in Roller Follower Tests,"**T37**, 1, 147-153.

94019 **Jang, D. Y.** and **Choi, Y.**, "Analysis of the Correlation Between Tool Wear and Cutting Damping Generated in the Machining Process,"**T37**, 1, 154-160.

94020 **Michaelis, K.** and **Höhn, B-R.**, "Influence of Lubricants on Power Loss of Cylindrical Gears,"**T37**, 1, 161-167.

94021 **Wang, C. C. J., Duda, J. L.** and **Klaus, E. E.**, "A Kinetic Model of Lubricant Deposit Formation Under Thin Film Conditions,"**T37**, 1, 168-174.

94022 **Wang, S. S.** and **Tung, S. C.**, "A New Technique to Enhance Film-Coating Processes in Oil-Based Media,"**T37**, 1, 175-181.

94023 **Yamamoto, Y.** and **Gondo, S.**, "Environmental Effects on the Composition of Surface Films Produced by an Organo-Molybdenum Compound,"**T37**, 1, 182-188.

94024 **Salant, R. F., Wolff, P.** and **Navon, S.**, "Electronically Controlled Mechanical Seal for Aerospace Applications—Part I: Design, Analysis, and Steady State Tests,"**T37**, 1, 189-195.

94025 **Hayashida, K., Yamamoto, K.** and **Nishimura, M.**, "Wear and Degradation Characteristics of Perfluoropolyalkylethers (PFPEs) in High Vacuum,"**T37**, 1, 196-200.

94026 **Yust, C. S.**, "Fast Fourier Transform Analysis of Computer-Acquired Friction Data,"**T37**, 1, 201-205.

94027 **Yu, Q.** and **Keith, Jr. T. G.**, "A Boundary Element Cavitation Algorithm,"**T37**, 2, 217-226.

94028 **Simmons, J. E. L.** and **Dixon, S. J.**, "Effect of Load Direction, Preload, Clearance Ratio, and Oil Flow on the Performance of a 200 mm Journal Pad Bearing,"**T37**, 2, 227-236.

94029 **Blake, J. W.** and **Draper, C. F.**, "Further Development of a Predictive Pitting Model for Gears: Improvements in the Life Prediction Analysis,"**T37**, 2, 237-244.

94030 **Komiya, M., Matsuda, K.** and **Kaneta, M.**, "Experimental and Analytical Study on Thermocracking of Alumina Ceramic Ring in a Mechanical Seal,"**T37**, 2, 245-252.

94031 **Lacey, P. I.**, "Evaluation of Oxidative Corrosion in Diesel Fuel Lubricated Contacts,"**T37**, 2, 253-260.

94032 **Lovell, M. R., Khonsari, M. M.** and **Marangoni, R. D.**, "Experimental Measurements of the Rest-Slope and Steady Torque on Ball Bearings Experiencing Small Angular Rotations,"**T37**, 2, 261-268.

94033 **Sankar, T. S.** and **Tzenov, P. I.**, "On Friction and Motion Accuracy in Jewel Bearing,"**T37**, 2, 269-276.

94034 **Wang, Q., Cheng, H. S.** and **Fine, M. E.**, "Wear of Tin Coating and Al-Si Alloy Substrate Against Carburized Steel Under Mixed Lubrication,"**T37**, 2, 277-284.

94035 **Xu, S.**, "Experimental Investigation of Hybrid Bearings,"**T37**, 2, 285-292.

94036 **Chao, K. K., Toth, D. K.** and **Saba, C. S, "An Integrated Test Method for High-Temperature Liquid Lubricants: Dynamic Test,"T37**, 2, 293-298.

94037 **Erck, R. A., Nichols, F. A.** and **Schult, D. L.**, "Weibull Analysis Applied to the Pull Adhesion Test and Fracture of a Metal-Ceramic Interface,"**T37**, 2, 299-304.

94038 **Kimura, Y.** and **Shima, M.**, "A Fracture-Mechanics Approach to Ceramic Wear,"**T37**, 2, 305-310.

94039 **Centers, P. W.**, "Effect of Polydimethylsiloxane Concentration on Ester Foaming Tendency,"**T37**, 2, 311-314.

94040 **Rac, A.**, "Cavitation Wear Resistance of Engine Bearing Materials,"**T37**, 2, 315-318.

94041 **Wietzel, U.**, "Microgeometrical Cavitation in Oscillating Slider Contacts,"**T37**, 2, 319-322.

94042 **Ai, X.** and **Cheng, H. S.**, "The Influence of Moving Dent on Point EHL Contacts,"**T37**, 2, 323-335.

94043 **Baheti, S. K.** and **Kirk, R. G.**, "Thermo-Hydrodynamic Solution of Floating Ring Seals for High Pressure Compressors Using the Finite-Element Method,"**T37**, 2, 336-346.

94044 **Wang, Y. H.** and **Hahn, E. J.**, "Effect of Squeeze Film Damper Land Geometry on Damper Performance,"**T37**, 2, 347-357.

94045 **Naruse, C., Nemoto, R., Haizuka, S.** and **Yoshizaki, M.**, "Influence of Oil Viscosity, Chemical Oil Structure, and Chemical Additives on Friction Loss of Spur Gears (Concerning the Influence of Synthetic Oil and Mineral Oil),"**T37**, 2, 358-368.

94046 **Dellacorte, C.** and **Steinetz, B.**, "Tribological Evaluation of an Al_2O_3-SiO_2 Ceramic Fiber Candidate for High Temperature Sliding Seals,"**T37**, 2, 369-377.

94047 **Imado, K., Miyagawa, H., Miura, A., Ueyama, N.** and **Hirano, F.**, "Behavior of Traction Oils Under Impact Loads,"**T37**, 2, 378-386.

94048 **Jackson, A., Webster, M. N.** and **Enthoven, J. C.**, "The Effect of Lubricant Traction on Scuffing,"**T37**, 2, 387-395.

94049 **Chang, W-R.** and **Ling, F. F.**, "Theory of Life Prediction of a Viscoelastic Lubricating Surface Film,"**T37**, 2, 396-402.

94050 **Sankar, T. S.** and **Tzenov, P. I.**, "The Steady-State Dynamics of Jewel Bearing with a Free Ball,"**T37**, 2, 403-409.

94051 **Allen, D. L.**, "Effect of Composition and Physical Properties of Silicon Nitride on Rolling Wear and Fatigue Performance,"**T37**, 2, 410-414.

94052 **Burton, R. A.**, "The Effects of Wall Perturbations on Thermo-Turbulent Couette Flow,"**T37**, 2, 415-419.

94053 **Ettles, C. M., Dinc, O. S.** and **Calabrese, S. J.**, "The Effect of Frictionally Generated Heat on Lubricant Transition,"**T37**, 2, 420-424.

94054 **Morrison, G. L., DeOtte, R. E. Jr.**, and **Thames III, H. D.**, "Experimental Study of the Flow Field Inside a Whirling Annular Seal,"**T37**, 2, 425-429.

94055 **Lin, Z. G., Zhang, J. T, Yang, Y. Q., Qiu, C. W.** and **Zhuang, Y. Q.**, "The Experimental Study of Laser Microprecision Treatment of I.C. Engine Tappet,"**T37**, 2, 430-432.

94056 **Chang, L., Jackson, A.** and **Webster, M. N.**, "Effects of 3-D Surface Topography on the EHL Film Thickness and Film Breakdown,"**T37**, 3, 435-444.

94057 **Murakami, Y., Sakae, C.** and **Ichimaru, K.**, "Three-Dimensional Fracture Mechanics Analysis of Pit Formation Mechanism Under Lubricated Rolling-Sliding Contact Loading,"**T37**, 3, 445-454.

94058 **Ku, C-P. R.** and **Heshmat, H.**, "Structural Stiffness and Coulomb Damping in Compliant Foil Journal Bearings: Parametric Studies,"**T37**, 3, 455-462.

94059 **San Andres, L.**, "Dynamic Force Response of Spherical Hydrostatic Journal Bearings for Cryogenic Applications,"**T37**, 3, 463-470.

94060 **Erdemir, A.**, "Crystal Chemistry and Solid Lubricating Properties of the Monochalcogenides Gallium Selenide and Tin Selenide,"**T37**, 3, 471-478.

94061 **Li, D., Chung, Y-W., Wong, M-S.** and **Sproul, W. D.**, "Nano-Indentation and Tribological Studies of Ultrahigh Strength Carbon Nitride Thin Films,"**T37**, 3, 479-482.

94062 **Sheu, S.** and **Wilson, W. R. D.**, "Mixed Lubrication of Strip Rolling,"**T37**, 3, 483-493.

94063 **Hanchi, J.** and **Eiss, Jr., N. S.**, "The Tribological Behavior of Blends of Polyetheretherketone (PEEK) and Polyetherimide (PEI) at Elevated Temperatures,"**T37**, 3, 494-504.

94064 **Loewenthal, S. H., Chou, R. G., Hopple, G. B.** and **Wenger, W. L.**, "Evaluation of Ion-Sputtered Molybdenum Disulfide Bearings for Spacecraft Gimbals,"**T37**, 3, 505-515.

94065 **Dai, F., Khonsari, M. M.** and **Lu, Z. Y.**, "On the Lubrication Mechanism of Grain Flows,"**T37**, 3, 516-524.

94066 **Ku, C-P. R.** and **Heshmat, H.**, "Structural Stiffness and Coulomb Damping in Compliant Foil Journal Bearings: Theoretical Considerations,"**T37**, 3, 525-533.

94067 **Kostrzewsky, G. J., Taylor, D. V.** and **Flack, R. D.**, "Experimental Determination of the Dynamic Characteristics of a Two-Axial Groove Journal Bearing,"**T37**, 3, 534-542.

94068 **Wilson, W. R. D., Sakaguchi, Y.** and **Schmid, S. R.**, "A Mixed Flow Model for Lubrication with Emulsions,"**T37**, 3, 543-551.

94069 **Schulz, K. J.** and **Viswanathan, K. V.**, "Factors Influencing the Abrasion Resistance of Thin-Film Magnetic Media,"**T37**, 3, 552-558.

94070 **Kato, T.** and **Magario, A.**, "The Wear of Aramid Fiber Reinforced Brake Pads: The Role of Aramid Fibers,"**T37**, 3, 559-565.

94071 **Lauer, J. L., Blanchet, T. A.** and **Ng, Q.**, "Composition and Performance of Hydrogenated Carbon Overcoats on Magnetic Storage Discs,"**T37**, 3, 566-572.

94072 **Matsukawa, K., Kataoka, M.** and **Morinushi, K.**, "The Effect of Pulsed Laser Annealing on Wear and Corrosion Properties of Electroless Ni-P Plating,"**T37**, 3, 573-579.

94073 **Cann, P. M.** and **Spikes, H. A.**, "The Behavior of Polymer Solutions in Concentrated Contacts: Immobile Surface Layer Formation,"**T37**, 3, 580-586.

94074 **Wang, Q., Cheng, H. S.** and **Fine, M. E.**, "Frictional Behaviors of Some Nitrogen Ceramics in Conformal Contact with Tin Coated Al-Si Alloy, Steel and MMC,"**T37**, 3, 587-593.

94075 **Jang, D. Y., Liou, J.** and **Cho, U.**, "Study of Residual Stress Distribution in the Machined Stainless Steel Components,"**T37**, 3, 594-600.

94076 **Gupta, B. K., Bhushan, B.** and **Chevallier, J.**, "Modification of Tribological Properties of Silicon by Boron Ion Implantation,"**T37**, 3, 601-607.

94077 **Harnoy, A.** and **Friedland, B.**, "Dynamic Friction Model of Lubricated Surfaces for Precise Motion Control,"**T37**, 3, 608-614.

94078 **Lee, S. C.** and **Ren, N.**, "The Subsurface Stress Field Created by Three-Dimensionally Rough Bodies in Contact with Traction,"**T37**, 3, 615-621.

94079 **Cutiongco, E. C.** and **Chung, Y-W.**, "Prediction of Scuffing Failure Based on Competitive Kinetics of Oxide Formation and Removal: Application to Lubricated Sliding of AISI 52100 Steel on Steel,"**T37**, 3, 622-628.

94080 **Yanagisawa, M.**, "Molecular Dynamics of Thin Lubricant Films on Sol-Gel SiO_2 Surfaces for Thin Film Magnetic Disks,"**T37**, 3, 629-635.

94081 **Wayne, S. F., Sampath, S.** and **Anand, V.**, "Wear Mechanisms in Thermally-Sprayed Mo-Based Coatings,"**T37**, 3, 636-640.

94082 **Prashad, H.** and **Rao, K. N.**, "Analysis of Capacitive Effect and Life Estimation of Hydrodynamic Journal Bearings on Repeated Starts and Stops of a Machine Operating Under the Influence of Shaft Voltages,"**T37**, 3, 641-645.

94083 **Bair, S.**, "The High-Pressure Rheology of a Soap-Thickened Grease,"**T37**, 3, 646-650.

94084 **Lucca, D. A., Seo, Y. W.** and **Rhorer, R. L.**, "Energy Dissipation and Tool-Workpiece Contact in Ultra-Precision Machining,"**T37**, 3, 651-655.

94085 **Ajayi, O. O., Erdemir, A., Fenske, G. R., Erck, R. A., Hsieh, J-H.** and **Nichols, F. A.**, "Effect of Metallic-Coating Properties on the Tribology of Coated and Oil-Lubricated Ceramics,"**T37**, 3, 656-660.

94086 **Matsuura, T.** and **Uchizawa, M.**, "Wear Behavior of Thin Film Heads for VCR in Sliding with Metal Evaporated Tapes,"**T37**, 3, 661-665.

94087 **Padavala, S., Palazzolo, A. B., Vallely, P.** and **Ryan, S.**, "Simulation Study with Arbitrary Profile Liquid Annular Seals,"**T37**, 4, 667-678.

94088 **Paranjpe, R. S.** and **Han, T.**, "A Study of the Thermohydrodynamic Performance of Steadily Loaded Journal Bearings,"**T37**, 4, 679-690.

94089 **Winoto, S. H.** and **Yohanand, K.**, "Analysis and Test of a Viscous Pump with Radial Pumping Grooves,"**T37**, 4, 691-700.

94090 **Etsion, I.** and **Michael, O.**, "Enhancing Sealing and Dynamic Performance with Partially Porous Mechanical Face Seals,"**T37**, 4, 701-710.

94091 **Cheng, J.**, "Elastohydrodynamic Grease Lubrication Theory and Numerical Solution in Line Contacts,"**T37**, 4, 711-718.

94092 **Gupta, M., Singhal, S.** and **Biswas, S.**, "Analytical Investigation on the Effect of Multigrade Oil in Piston Ring Lubrication,"**T37**, 4, 719-726.

94093 **Lin, J F.** and **Chen, Y. N.**, "Thermohydrodynamic Analysis of a Journal Bearing in a Turbulent Flow Regime—Part I: Theory,"**T37**, 4, 727-734.

94094 **Wang, Q., Cheng, H. S., Caracostas, C. A.** and **Fine, M. E.**, "Wear of Aluminum-Alloy Matrix Composites in Lubricated Conformal Contact with Case Hardened Steel,"**T37**, 4, 735-742.

94095 **Rhode, D. L., Ko, S. H.** and **Morrison, G. L.**, "Experimental and Numerical Assessment of an Advanced Labyrinth Seal,"**T37**, 4, 743-750.

94096 **Blau, P. J.**, "Friction Process Diagrams for Analyzing Interfacially-Complex Sliding Contacts,"**T37**, 4, 751-756.

94097 **Marciniec, A.** and **Torstenfelt, B.**, "Load Distribution in Flexibly Supported Three-Row Roller Slew Bearings,"**T37**, 4, 757-762.

94098 **Wu, X., Qi, W., Wang, C.** and **Zhao, X.**, "The Investigation on Lubrication State of Gears,"**T37**, 4, 763-766.

94099 **Xu, H.** and **Lei, T.**, "A Ringless High Pressure Moving Seal up to 1200 MPa,"**T37**, 4, 767-770.

94100 **Kim, J., Palazzolo, A. B.** and **Gadangi, R. K.**, "TEHD Analysis for Tilting-Pad Journal Bearings Using Upwind Finite Element Method,"**T37**, 4, 771-783.

94101 **Nataraj, C., Ashrafiuon, H.** and **Arakere, N. K.**, "Effect of Fluid Inertia on Journal Bearing Parameters,"**T37**, 4, 784-792.

94102 **Rumbarger, J. H.** and **Poplawski, J. V.**, "Correlating Computerized Rolling Bearing Analysis Techniques to the ISO Standards on Load Rating and Life,"**T37**, 4, 793-801.

94103 **Sinha, A. N., Athre, K.** and **Biswas, S.**, "A Nonlinear Approach to Solution of Reynolds Equation for Elastic Distortion Analysis of Spring-Supported Thrust Bearing,"**T37**, 4, 802-810.

94104 **Zhu, Y. Y., Kelsall, G. H.** and **Spikes, H. A.**, "The Influence of Electrochemical Potentials on the Friction and Wear of Iron and Iron Oxides in Aqueous Systems,"**T37**, 4, 811-819.

94105 **Lin, J. F.** and **Chen, Y. N.**, "Thermohydrodynamic Analysis of a Journal Bearing in a Turbulent Flow Regime—Part II: Application to an Axial Groove Bearing,"**T37**, 4, 820-828.

94106 **Carpino, M., Peng, J-P.** and **Medvertz, L.**, "Misalignment in a Complete Shell Gas Foil Journal Bearing,"**T37**, 4, 829-835.

94107 **Wu, Z.** and **Dareing, D. W.**, "Non-Newtonian Effects of Powder-Lubricant Slurries in Hydrostatic and Squeeze-Film Bearings,"**T37**, 4, 836-842.

94108 **Swanson, E. E.** and **Kirk, R. G.**, "An Experimental Comparison of Two Steadily Loaded Plain Journal Bearings,"**T37**, 4, 843-849.

94109 **Wang, J. M.** and **Schellekens, P. H. J.**, "Tri-Conical Gap-Shaped Externally Pressurized Gas Bearing Pads,"**T37**, 4, 850-856.

94110 **Peterson, J., Finn, W. E.** and **Dareing, D. W.**, "Non-Newtonian Temperature and Pressure Effects of a Lubricant Slurry in a Rotating Hydrostatic Step Bearing,"**T37**, 4, 857-863.

94111 **Streator, J. L.** and **Johnson, J. K.**, "Velocity-Dependent Adhesion with Lubricants on Thin-Film Disks,"**T37**, 4, 864-870.

94112 **Radchik, V. S.** and **Kotlyar, Y. J.**, "About Joint Deformations of Asperities and the Destruction of Rough Surfaces During Friction,"**T37**, 4, 871-875.

94113 **Burton, R. A.**, "Convection of Heat in Short-Bearings and Face Seals,"**T37**, 4, 876-880.

94114 **Marsi, J. A.**, "Enclosed Mechanical Seal Face Design for Brittle Materials,"**L50**, 1, 10-15.

94115 **Dong, J., Chen, G., Luo, X., Chen, L.** and **Shi, Z. E.**, "A New Concept—Formation of Permeating Layers from Nonactive Antiwear Additives,"**L50**, 1, 17-22.

94116 **Komatsuzaki, S.** and **Uematsu, T.**, "Estimation of Service Life of Grease in Large Size Roller Bearings,"**L50**, 1, 25-29.

94117 **Reich, R. A., Epp, J. M.** and **Festa, R. P.**, "A Method to Study the Mechanism of Lubrication of an O/W Emulsion in Cold Rolling Aluminum Using H_2 ^{18}O, SIMS and TOF-SIMS,"**L50**, 1, 31-35.

94118 **Evenson, R., Peterson, R.** and **Hanson, R.**, "Preliminary Investigation and Application of Alternate Dry Gas Seal Face Materials,"**L50**, 1, 37-44.

94119 **Young, L. A.** and **Key, W. E.**, "Evaluation of Barrier Fluids for Dual Seal Applications: Part II,"**L50**, 1, 55-61.

94120 **Sørensen, F.** and **Petersen, H. J. S.**, "Nonsolvent Based Lubrication of Machine Elements,"**L50**, 1, 63-64.

94121 **Nwagboso, C. O.**, "Evaluation of Surface Contact Forces on a Roll Deformed Elastomeric Seal Using Imaging Method,"**L50**, 1, 66-72.

94122 **Divakar, R.**, "Sintered Silicon Carbides with Controlled Porosity for Mechanical Face Seal Applications,"**L50**, 1, 75-80.

94123 **Ball, J., Treverton, J. A.** and **Thornton, M. C.**, "Evaluation of the Effects of Stresses in Hot Rolling Mills on Oxide Films on Aluminum,"**L50**, 1, 89-93.

94124 **Purdy, E. M.**, "The Integrated Petroleum, Oils & Lubricants Data System for the Military,"**L50**, 2, 106-108.

94125 **Roylance, B. J., Albidewi, I. A., Laghari, M. S., Luxmoore, A. R.** and **Deravi, F.**, "Computer-Aided Vision Engineering (CAVE)—Quantification of Wear Particle Morphology,"**L50**, 2, 111-116.

94126 **Metcalfe, R.** and **Wensel, R.**, "High Performance O-Ring Sealed Joints,"**L50**, 2, 143-150.

94127 **Cahoon, J. M., Riga, A. T., Hong, H.** and **Vinci, J. N.**, "The Chemistry of Sulfonates as Metalworking Additives,"**L50**, 2, 155-158.

94128 **Jost, H. P.**, "Modern Tribology Past and Future,"**L50**, 2, 159-166.

94129 **El-Gizawy, A. S., Kamalasan, S.** and **Thurman, C.**, "Effects of Metallurgical and Tribological Factors on Formability Limits and Surface Condition of Aluminum 7075 Sheet Products,"**L50**, 2, 167-172.

94130 **Leefe, S. E., Hobson, R. M.** and **Nau, B. S.**, "An Experimental Study of High-Speed Mechanical Seal Stability,"**L50**, 2, 173-181.

94131 **Shubkin, R. L.**, "Polyalphaolefins: Meeting the Challenge for High-Performance Lubrication,"**L50**, 3, 196-201.

94132 **Lian, Y.** and **Xue, Q.**, "Antiwear and EP Characteristics of Some Rare Earth Fluorides as Grease Additives,"**L50**, 3, 203-205.

94133 **Gabriel, R. P.**, "Fundamentals of Spiral Groove Noncontacting Face Seals,"**L50**, 3, 215-224.

94134 **Glaeser, W. A., Erickson, R. C., Dufrane, K. F.** and **Kannel, J. W.**, "Tribology: The Science of Combatting Wear-Part VI,"**L50**, 3, 225-227.

94135 **Peng, P., Hong, S-Z.** and **Lu, W-Z.**, "The Degradation of Zinc Dialkyldithiophosphate Additives in Fully Formulated Engine Oil as Studied by P-31 NMR Spectroscopy,"**L50**, 3, 230-235.

94136 **Wasser, J. R.**, "Dry Seal Technology for Rotating Equipment,"**L50**, 3, 247-252.

94137 **Schey, J. A.**, "Geometric Factors Affecting Results from the Drawbead Simulation (DBS) Test,"**L50**, 3, 255-260.

94138 **Shankwalkar, S.** and **Placek, D.**, "Oxidation Kinetics of Tricresyl Phosphate (TCP) Using Differential Scanning Calorimetry (DSC),"**L50**, 3, 261-264.

94139 **Melley, R. E., Paton, C. G.** and **Llewellyn R. J.**, "The Role of Research in Maintenance Program Development,"**L50**, 4, 276-284.

94140 **Yeung, K. K., McKenzie, A. J., Liew, D.** and **Luoma, G. A.**, "Development of Computer-Aided Image Analysis for Filter Debris Analysis,"**L50**, 4, 293-299.

94141 **Perez, R. J.** and **Brenner, M. S.**, "Development of a New Pump Filterability Rig Test,"**L50**, 4, 300-304.

94142 **Kiovsky, T. E., Yates, N. C.** and **Bales, J. R.**, "Fuel Efficient Lubricants and the Effect of Special Base Oils,"**L50**, 4, 307-312.

94143 **Massoudi, A. R., Jones, M. H.** and **Roylance, B. J.**, "On-Site Measurement of Wear Debris Using a Rapid Portable Ferrous Debris Tester,"**L50**, 4, 315-319.

94144 **Guzauskas, J. F., Abbott, F. P.** and **Baumgartner, N. R.**, "Characteristics of Wax Extracted from Lubricant Basestocks,"**L50**, 4, 326-336.

94145 **Barman, B. N.**, "Influence of Temperature on the Degradation of Isothiazolone Biocides in Aqueous Media and in a Metalworking Fluid Concentrate,"**L50**, 5, 351-355.

94146 **Carpenter, J. F.**, "Biodegradability of Polyalphaolefin (PAO) Basestocks,"**L50**, 5, 359-362.

94147 **Treverton, J. A.** and **Ball, J.**, "Surface Analytical Studies of Hot Rolled Aluminum,"**L50**, 5, 365-372.

94148 **Glaeser, W. A., Erickson, R. C., Dufrane, K. F.** and **Kannel, J. W.**, "Tribology: The Science of Combatting Wear-Part VII,"**L50**, 5, 381-384.

94149 **Tao, D., Lu, S., Li, Z.** and **Shi, Y.**, "The Lubrication Effect of the Glycolipid-Type Bionic Synovial Fluid on a Bone Joint,"**L50**, 5, 386-389.

94150 **Chatterjee, S., Srivatsan, T. S.** and **Giusti, P.**, "Cutting Tool Performance Characteristics in the Machining of a Nickel Aluminide Intermetallic Compound,"**L50**, 5, 395-401.

94151 **Riga, A. T.** and **Roby, S. H.**, "Low Temperature Properties of Crankcase Motor Oils: A Fundamental Approach to Pumpability Phenomena,"**L50**, 5, 411-417.

94152 **Schrama, R. C.**, "Housing and Chock Clearances and Liner Materials for Steel Mill Rolling Mills,"**L50**, 6, 438-447.

94153 **Helmick, L. S.** and **Jones, Jr., W. R.**, "Determination of the Thermal Stability of Perfluoropolyalkyl Ethers by Tensimetry,"**L50**, 6, 449-457.

94154 **Glaeser, W. A., Erickson, R. C., Dufrane, K. F.** and **Kannel, J. W.**, "Tribology: The Science of Combatting Wear-Part VIII,"**L50**, 6, 461-464.

94155 **Dellacorte, C.** and **Steinetz, B. M.**, "Tribological Comparison and Design Selection of High-Temperature Candidate Ceramic Fiber Seal Materials,"**L50**, 6, 469-477.

94156 **Rigaut, B., Chen, Y. M.** and **Chely, J. S.**, "Wear Behavior of Al_2O_3, Si_3N_4 and CBN Cutting Tool Materials at High Sliding Speed,"**L50**, 6, 485-489.

94157 **Prasad, S. V.** and **Mecklenburg, K. R.**, "Self-Lubricating Aluminum Metal-Matrix Composites Dispersed with Tungsten Disulfide and Silicon Carbide,"**L50**, 7, 511-517.

94158 **Woydt, M.** and **Habig, K-H.**, "Tribological Criteria and Assessments for the Life of Unlubricated Engines,"**L50**, 7, 519-522.

94159 **Gupta, B. K.** and **Bhushan, B.**, "Fullerene Particles as an Additive to Liquid Lubricants and Greases for Low Friction and Wear,"**L50**, 7, 524-528.

94160 **Bajaj, K. K.**, "Oil-Mist Lubrication of High-Temperature Paper Machine Bearings,"**L50**, 7, 564-568.

94161 **Sliney, H. E.** and **Dellacorte, C.**, "The Friction and Wear of Ceramic/Ceramic and Ceramic/Metal Combinations in Sliding Contact,"**L50**, 7, 571-576.

94162 **Kishi, K., Arita, M., Kita, F.** and **Nishimura, M.**, "Effects of Ti-Alloy Surface Treatment on the Lubrication Performance of Sputtered MoS_2 Films,"**L50**, 7, 584-592.

94163 **Lee, H-S., Wang, S. S.** and **Smolenski, D. J.**, "In-Situ Oil Condition Monitoring in Passenger Cars,"**L50**, 8, 605-611.

94164 **Hong, H-S.**, "Effect of Molybdenum Dithiocarbamate and Zinc Dithiophosphate on the Tribological Behavior of Si_3N_4 and Al_2O_3,"**L50**, 8, 616-622.

94165 **Lai, T.**, "Development of Non-Contacting, Non-Leaking Spiral Groove Liquid Face Seals,"**L50**, 8, 625-631.

94166 **Shirodkar, S. M., Benfaremo, N.** and **Skarlos, L.**, "Oil Soluble Antioxidant Polymethacrylates for Lubricants,"**L50**, 8, 641-646.

94167 **Helmick, L. S.** and **Jones, Jr., W. R.**, "Determination of the Oxidative Stability of Perfluoropolyalkyl Ethers and Correlation with Chemical Structure,"**L50**, 8, 649-655.

94168 **Galiano-Roth, A. S.** and **Page, N. M.**, "Effect of Hydroprocessing on Lubricant Base Stock Composition and Product Performance,"**L50**, 8, 659-664.

94169 **Roberge, P. R., Selkirk, C. G.** and **Fisher, G. F.**, "Developing an Expert System Assistant for Filter Debris Analysis,"**L50**, 9, 678-683.

94170 **Jarvis, N. L., Wohltjen, H., Klusty, M., Gorin, N., Fleck, C., Shay, G.** and **Smith, A.**, "Solid-State Microsensors for Lubricant Condition Monitoring—Part I: Fuel Dilution Meter,"**L50**, 9, 689-693.

94171 **Yao, J., Dong, J.** and **Xiong, R.**, "Antiwear Synergism of Borates and Copper Oleate,"**L50**, 9, 695-698.

94172 **Smolenski, D. J.** and **Schwartz, S. E.**, "Automotive Engine-Oil Condition Monitoring,"**L50**, 9, 716-722.

94173 **Abanto, M., Byers, J.** and **Noble, H.**, "The Effect of Tramp Oil on Biocide Performance in Standard Metalworking Fluids,"**L50**, 9, 732-737.

94174 **Lacey, P. I.**, "Development of a Lubricity Test Based on the Transition from Boundary Lubrication to Severe Adhesive Wear in Fuels,"**L50**, 10, 749-757.

94175 **Parkhurst, Jr., H. J.**, "Filter Element Service Life Evaluation and Optimization in Paper Machine Lubrication Systems,"**L50**, 10, 760-764.

94176 **Jones, G.** and **DiMeo, D.**, "The Availability Improvement Potential With Magnetic Bearings in the Utility Industry,"**L50**, 10, 770-775.

94177 **Wang, C-B.** and **Wen, S-Z.**, "Behavior of Cast Iron Surface Layers in Transition From Mild to Severe Sliding Wear Under Lubricated Condition,"**L50**, 10, 780-784.

94178 **Glaeser, W. A., Erickson, R. C., Dufrane, K. F.** and **Kannel, J. W.**, "Tribology: The Science of Combatting Wear-Part IX,"**L50**, 10, 785-787.

94179 **Wallis, R.**, "Influence of the Microstructure of Ceramic Materials on Their Wear Behavior in Mechanical Seals,"**L50**, 10, 789-799.

94180 **Komatsuzaki, S., Homma, Y., Itoh, Y., Kawashima, K.** and **Iizuka, T.**, "Polyol Esters as HFC-134a Compressor Lubricants,"**L50**, 10, 801-807.

94181 **Hanyaloglu, B.** and **Graham, E. E.**, "Vapor Phase Lubrication of Ceramics,"**L50**, 10, 814-820.

94182 **Schey, J. A.**, "Causes of Random Variations of Friction in Sheet Metalworking,"**L50**, 10, 821-829.

94183 **Belforte, G., Raparelli, T.** and **Velardocchia, M.**, "Effect of Mounting Tolerances on Pneumatic Cylinder Lip Seal Friction Forces,"**L50**, 11, 841-845.

94184 **Dufour, J. W.** and **Jones, R. L.**, "An Introduction to API 682 Shaft Sealing for Centrifugal and Rotary Pumps,"**L50**, 11, 849-855.

94185 **Wohltjen, H., Jarvis, N. L., Klusty, M., Gorin, N., Fleck, C., Shay, G.** and **Smith, A.**, "Solid State Microsensors for Lubricant Condition Monitoring: II. Total Base Number,"**L50**, 11, 861-866.

94186 **Masuko, M., Jones, Jr., W. R., Jansen, R., Ebihara, B, Pepper, S. V.** and **Helmick, L. S.**, "A Vacuum Four-Ball Tribometer to Evaluate Liquid Lubricants for Space Applications,"**L50**, 11, 871-875.

94187 **Schoenherr, K.**, "Design Terminology for Mechanical End Face Seals,"**L50**, 11, 881-891.

94188 **Cavdar, B., Sharma, S. K.** and **Gschwender, L. J.**, "Wear-Reducing Surface Films Formed by a Fluorinated Sulfonamide Additive in a Chlorotrifluoroethylene-Based Fluid,"**L50**, 11, 895-902.

94189 **Dai, Z.**, "Experimental Study on Impact Fretting in Heat Exchanger Tubes with Brush Plated Coatings,"**L50**, 11, 905-908.

94190 **Macpherson, I.** and **Conary, G. S.**, "Elastomer Compatibility with Gear Lubricants—Part I: Immersion Testing,"**L50**, 11, 913-922.

94191 **Qiu, Y., Wang, X.** and **Wang, Z.**, "Lubrication Performance of a Mannich Condensation Compound,"**L50**, 12, 937-941.

94192 **Reichel, J.**, "Fluid Power Engineering With Fire Resistant Hydraulic Fluids-Experiences With Water-Containing Hydraulic Fluids,"**L50**, 12, 947-952.

94193 **Bolden, A.**, "Organization of a Plant, Lubrication Program - I,"**L50**, 12, 959-962.

94194 **Supp, J. A., Kornbrekke, R. E.** and **Roby, S. H.**, "Deposit Formation in Gasoline Engines. Part 1. Base Oil Effects in Sequence VE Deposits,"**L50**, 12, 964-968.

94195 **Masuko, M., Hanada, T.** and **Okabe, H.**, "Distinction in Antiwear Performance Between Organic Sulfide and Organic Phosphate as EP Additives for Steel Under Rolling With Sliding Partial EHD Conditions,"**L50**, 12, 972-977.

94196 **Roby, S. H., Kornbrekke, R. E.** and **Supp, J. A.**, "Deposit Formation in Gasoline Engines. Part 2. Dispersant Effects on Sequence VE Deposits,"**L50**, 12, 989-995.

94197 **"Tribology and Mechanics of Magnetic Storage Systems, Volume IX"**, **"SP-36**, 92 pages **94198 Nabata, Y., Aoki, Y., Yamada, S.** and **Maki, K.**, "Influence of Lubricant Thickness on CSS Durability,"**SP-36**, 1-4.

94199 **Schreck, E.**, "Magnetic-Readback-Mapping and its Application to Slider/Disk Interface Damage due to Shock Impact,"**SP-36**, 5-10.

94200 **Smith, P. W., Wahl, M. H.** and **Talke, F. E.**, "Accelerated Natural Convergence for Pivoted Slider Bearings,"**SP-36**, 11-16.

94201 **Wahl, M. H., Casmer, S.** and **Talke, F. E.**, "Multi-Wavelength Intensity-Based Interferometry for Flexible Head/Medium Interfaces,"**SP-36**, 17-24.

94202 **Yanagisawa, M.**, "Adsorption of Perfluoro-Polyethers on Carbon Surfaces,"**SP-36**, 25-32.

94203 **Bhushan, B.** and **Monahan, J. A.**, "Accelerated Friction and Wear Studies of Various Particulate and Thin-Film Magnetic Tapes Against Tape Path Materials in Pure Sliding and Rotary/Sliding Modes,"**SP-36**, 33-45.

94204 **Koka, R.**, "Wear of Silicon Carbide in Sliding Contact With Lubricated Thin-Film Rigid Disk,"**SP-36**, 46-52.

94205 **Liew, Y-F., Lauer, J. L., Talke, F. E.** and **Connell, K.**, "Analysis of Deposits from Friction at Head-Tape Interfaces by Raman Spectroscopy,"**SP-36**, 53-57.

94206 **Matsuura, T.** and **Uchizawa, M.**, "Wear Behavior of Thin Film Heads for VCR in Sliding with Metal Evaporated Tapes,"**SP-36**, 58-62.

94207 **Mitsuya, Y.** and **Tanuki, T.**, "Nearmiss Count Between Flying Head and Magnetic Disk by Detecting Electrical Potential of Voltage-Applied Slider,"**SP-36**, 63-71.

94208 **Schulz, K. J.** and **Viswanathan, K. V.**, "Factors Influencing the Abrasion Resistance of Thin-Film Magnetic Media,"**SP-36**, 72-78.

94209 **Tsai, H-C., Han, C-K.** and **Nixon, B. J.**, "Effects of Air Pressure on Head Takeoff/Landing Profiles and Contact Start/Stop (CSS) Performance of Rigid-Disk Drives,"**SP-36**, 79-85.

94210 **Yanagisawa, M.**, "Molecular Dynamics of Thin Lubricant Films on Sol-Gel SiO_2 Surfaces for Thin Film Magnetic Disks,"**SP-36**, 86-92.

1994 Subject Index

Bearings
- **Air, Gas** 94106, 94109, 94134
- **Hydrodynamic** 94035, 94052, 94067, 94103, 94107, 94134
  - Compliant 94066
  - Foil 94005, 94011, 94058, 94066, 94106, 94134
  - Journal 94027, 94028, 94040, 94058, 94067, 94074, 94077, 94082, 94088, 94093, 94094, 94101, 94105, 94106, 94108
  - Slider 94027, 94041, 94200
  - Tilting-Pad 94028, 94100, 94103, 94134, 94200
- **Hydrostatic** 94035, 94059, 94107, 94110
- **Jewel** 94033, 94050
- **Magnetic** 94176
- **Porous Metal** 94134
- **Precision** 94033, 94050
- **Rolling Element** 94002, 94051, 94064, 94097, 94102, 94116, 94148, 94160, 94178, 94192
  - Ball 94010, 94032, 94102
  - Cylindrical Roller 94097, 94102
- **Self-Lubricating** 94033, 94134
- **Solid Lubricated** 94065

Computing and Engineering Methods
- **Computerized Maintenance**—*see* Maintenance
- **Contact Mechanics** 94062, 94078, 94112
- **Data Acquisition** 94026, 94125, 94140
- **Dynamic Modelling** 94010, 94011, 94033, 94044, 94050, 94058, 94066, 94087, 94090, 94101
- **Expert Systems** 94169
- **Fluid Mechanics** 94004, 94005, 94009, 94011, 94013, 94014, 94024, 94027, 94041, 94042, 94043, 94089, 94090, 94091, 94092, 94093, 94095, 94099, 94100, 94101, 94103, 94105, 94106, 94109, 94200
- **Heat Transfer Analysis** 94030, 94043, 94088, 94093, 94100, 94105, 94113
- **Statistical Analysis** 94037
- **Stress Analysis** 94003, 94029, 94030, 94038, 94049, 94057, 94078, 94097, 94102, 94112
- **Tribology Databases** 94124, 94158
- *see also* Lubrication Regimes

Extreme Conditions Tribology
- **High Pressures** 94099, 94130
- **High Speed** 94130
- **High Temperature** 94036, 94046, 94063, 94153, 94155, 94160, 94161
- **Humidity** 94031, 94174
- **Low Temperature** 94059, 94151
- **Particulate Contamination** 94125
- **Vacuum and Space** 94064, 94186

Friction
- **Boundary Lubrication** 94007, 94008, 94012, 94015, 94022, 94023, 94036, 94053, 94062, 94074, 94077, 94085, 94104, 94111, 94115, 94122, 94132, 94149, 94159, 94164, 94171, 94174, 94177, 94178, 94180, 94181, 94186, 94188, 94191, 94194
- **EHL (Traction)** 94002, 94010, 94017, 94020, 94045, 94148, 94154
- **Hydrodynamic Lubrication** 94010, 94052, 94065, 94066, 94077, 94092, 94094, 94165
- **Mechanisms** 94096, 94182, 94195
- **Rolling** 94032, 94182
- **Self Lubrication** 94016
- **Solid Lubrication** 94060, 94061, 94064, 94071, 94081, 94162
- **Static** 94198
- **Stick-Slip** 94111
- **Testing**
  - Bench Tests 94015, 94036, 94053, 94063, 94076, 94081, 94094, 94122, 94137, 94149, 94157, 94161, 94162, 94164, 94171, 94174, 94177, 94180, 94181, 94186, 94188, 94191, 94203, 94204
  - Equipment Tests 94032, 94045, 94064, 94182, 94183
- **Unlubricated** 94026, 94033, 94046, 94050, 94063, 94070, 94072, 94076, 94078, 94096, 94112, 94137, 94156, 94157, 94161, 94183, 94203

Human and Environmental
- **Biolubrication**—*see* Lubrication Regimes
- **Conservation**
  - Energy 94131, 94142
- **Economics** 94128
- **Education** 94128
- **History** 94128
- **Pollution** 94120, 94146, 94180, 94184
- **Safety** 94120
- **Toxicology** 94120, 94146, 94192
- **Waste** 94146

Lubricant Classes (by Application)
- **Automatic Transmission Fluids** 94166
- **Compressor Oils** 94180
- **Fire-Resistant Fluids** 94138, 94192
- **Gear Lubricants** 94045, 94048, 94190, 94191
- **Greases** 94083, 94091, 94116, 94132, 94159
- **Hydraulic Fluids** 94138, 94141, 94188, 94191, 94192
- **Internal Combustion Engine Oils** 94009, 94034, 94092, 94135, 94142, 94144, 94151, 94163, 94172
  - Diesel Engines 94170, 94185
  - Gasoline Engines 94163, 94194, 94196
- **Metalworking Fluids, Coolants** 94068, 94127, 94145, 94150, 94173
  - Cutting 94127, 94150
  - Rolling 94062, 94117
- **Paper Machine Oils** 94160, 94175
- **Refrigeration Oils** 94180

Lubricant Components
- **Additives**
  - Antimicrobial 94145, 94173
  - Antioxidant 941662
  - Antiwear 94008, 94053, 94115, 94132, 94135, 94164, 94171, 94178, 94188, 94191
  - Corrosion Inhibitor 94174, 94188
  - Detergent/Dispersant 94127, 94166, 94196
  - Extreme Pressure 94045, 94053, 94098, 94127, 94132, 94178, 94191, 94195
  - Foam Control 94039
  - Friction Modifying 94012, 94023, 94171, 94188
  - Grease Thickener 94083
  - Pour Point Depressants 94144, 94151
  - Solid Lubricant 94046, 94071, 94159
  - VI Improver 94073, 94092, 94166, 94194
- **Mineral Basestocks** 94045, 94119, 94142, 94144, 94159, 94168, 94194
- **Solid Lubricants** 94049, 94069, 94159, 94162
  - Molybdenum Disulfide 94064, 94159, 94162
  - PTFE 94159
- **Synthetic Basestocks** 94048, 94080, 94085, 94131, 94138, 94142, 94153, 94167, 94173, 94180, 94188, 94192
  - Fluorocarbons 94025, 94188
  - Hydrocarbons 94020, 94045, 94048, 94079, 94119, 94142, 94146
  - Organic Esters 94039, 94085, 94119, 94159, 94171, 94180, 94192
  - Phosphate Esters 94138, 94192
  - Polyethers 94025, 94111, 94153, 94167, 94198, 94202, 94210
  - Polyglycols 94020, 94045, 94119, 94192
- **Vegetable Oils** 94192
- **Water, Water-Based** 94068, 94104, 94117, 94145, 94173, 94192

Lubricant Manufacture, Application and Disposal
- **Application Method**
  - Grease Application 94154
  - Jet, Spray 94154
  - Mist 94154, 94160
  - Vapor Phase 94181
- **Cleanup, Solvents** 94120
- **Manufacture** 94131
  - Marketing 94131
  - Refining 94131

Lubricant Properties and Problems
- **Acidity, Basicity** 94185, 94196
- **Additive Degradation** 94135, 94145, 94163
  - Depletion 94163
  - Interaction 94127, 94135, 94191
- **Additive Deposition**—*see* Surface Technology
- **Additive Solubility** 94168
- **Contamination** 94163, 94173
  - Fuel Dilution 94163, 94170, 94172
  - Incompatible Fluids 94163, 94172, 94173
  - Particulates 94125, 94140, 94141, 94143, 94169, 94175, 94196
- **Flash and Fire Point** 94192
- **Foaming, Gas Entrainment and Release** 94039
- **Gas Solubility** 94180
- **Grease Properties** 94091, 94116, 94132
- **Lubricant Degradation** 94021, 94036, 94135, 94138, 94153, 94163, 94194, 94196
  - Microbial 94145, 94173
  - Oxidation 94021, 94116, 94138, 94166, 94167, 94168
  - Shear 94166
  - Thermal 94021, 94116, 94138, 94153
- **Rheology** 94083, 94107
  - Non-Newtonian Behavior 94083, 94091, 94107, 94110
  - Pour Point 94144, 94151
  - Traction, Shear Strength 94048
  - Viscosity 94174, 94180, 94196
  - Viscosity-Pressure 94047, 94083
  - Viscosity-Temperature 94151
  - Viscoelasticity 94049, 94092
- **Vapor Pressure, Volatility** 94142
- *see also* Maintenance

Lubrication Regimes
- **Biolubrication** 94149
- **Boundary Lubrication** 94007, 94018, 94023, 94031, 94036, 94053, 94077, 94078, 94080, 94085, 94104, 94111, 94115, 94127, 94132, 94164, 94171, 94174, 94177, 94178, 94179, 94181, 94186, 94188, 94195, 94210
  - Chemistry 94007, 94080, 94104, 94115, 94171, 94210
  - Friction—*see* Friction
  - Thermal Effects 94053, 94079
  - Wear—*see* Wear
- **Elastohydrodynamic Lubrication (EHL)** 94020, 94047, 94048, 94055, 94056, 94068, 94073, 94091, 94117, 94148, 94154
  - Compliant Surface EHL 94062, 94117
  - Film Geometry 94002, 94042, 94047, 94056, 94068, 94073, 94091, 94154
  - Grease Lubricated 94091
  - Low Elastic Modulus EHL 94047
  - Micro-EHL 94042, 94056
  - Non-Newtonian Lubricants 94010, 94017
  - Partial-EHL, Roughness Effects 94001, 94006, 94042, 94047, 94056, 94062, 94195
  - Starvation 94002
  - Thermal Effects 94017, 94048, 94154
  - Traction—*see* Friction
- **Hydrodynamic and Hydrostatic Lubrication** 94028, 94035, 94040, 94043, 94044, 94054, 94058, 94059, 94077, 94082, 94088, 94089, 94090, 94092, 94093, 94094, 94100, 94101, 94103, 94105, 94106, 94107, 94108, 94109, 94110, 94133, 94134, 94136, 94165, 94187, 94200, 94209
  - Cavitation 94027, 94040, 94041, 94088
  - Film Geometry 94005, 94009, 94011, 94044, 94067, 94087, 94090, 94100, 94103, 94106, 94108, 94109, 94092, 94100, 94113, 94209
  - Flow Rate 94028, 94085, 94099, 94133, 94165
  - Friction—*see* Friction
  - Gas and Vapor Lubricated 94109
  - Inertia Effects 94101
  - Load-Carrying Capacity 94035, 94065, 94067, 94103, 94109, 94110
  - Non-Newtonian Lubricants 94107, 94110
  - Squeeze-Film 94044, 94107
  - Stability, Vibration 94004, 94035, 94043, 94044, 94058, 94059, 94066, 94067, 94101, 94109
  - Thermal Effects 94028, 94043, 94052, 94088, 94093, 94100, 94105, 94108, 94110, 94113, 94133
  - Turbulent 94028, 94054, 94093, 94105
- **Self Lubrication** 94016, 94076, 94157, 94158, 94161
- **Solid Lubrication** 94060, 94061, 94064, 94065, 94069, 94071, 94074, 94081, 94086, 94096, 94159, 94161

Mechanisms 94159

Maintenance and Condition Monitoring
Computer Use in Maintenance 94124, 94125, 94140, 94143, 94169, 94170
Equipment Monitoring 94139, 94140, 94143, 94162, 94169, 94170, 94172, 94185
Failure Analysis 94121, 94125, 94140, 94176
Filtration, Cleanliness 94125, 94141, 94143, 94169, 94175
Life Prediction Methods 94116
Lubricant Analytical Techniques 94162, 94169, 94172, 94185
DSC 94138, 94144, 94166, 94172
Ferrography 94169
Fluorescence 94194
Gas Chromatography 94144, 94194
Liquid Chromatography 94145, 94194
NMR 94135, 94167, 94210
TGA 94167
see also Lubricant Properties
Lubrication Scheduling 94116, 94124, 94162, 94172, 94185, 94193
Maintenance 94124, 94139, 94169, 94175, 94185, 94193
see also Wear and Failure

Materials Properties and Tribology
Ceramics 94008, 94018, 94030, 94038, 94041, 94046, 94051, 94061, 94085, 94150, 94155, 94156, 94157, 94158, 94161, 94164, 94179, 94181, 94199, 94204
Borides 94155, 94156
Carbides 94094, 94114, 94118, 94122, 94133, 94155, 94156, 94157, 94161, 94179, 94204, 94206
Composite 94070
Nitrides 94038, 94051, 94061, 94074, 94156, 94161, 94164
Oxides 94018, 94030, 94037, 94046, 94085, 94104, 94155, 94156, 94161, 94164, 94179, 94181, 94204, 94206, 94210
Composites 94001
Elastomeric 94121, 94126, 94190
Ferrous Alloys, Steel 94075, 94079, 94118, 94152, 94177
Metals, Elemental
Aluminum 94094, 94123, 94129, 94147, 94156, 94157, 94199
Copper 94189
Gallium 94060
Gold 94085
Iron 94104
Molybdenum 94081
Nickel 94072, 94150, 94189
Silver 94037, 94085
Tin 94034, 94060, 94074
Titanium 94162
Tungsten 94157, 94189
Non-Ferrous Alloys 94129, 94150, 94162, 94189
Polymeric 94003, 94063
Powder Metals 94157
Self-Lubricating
Carbon, Graphite 94071
Composites 94157

Metalworking, Materials Machining
Coolants—*see* Lubricant Classes
Cutting 94075, 94084, 94150, 94156
Turning 94019, 94075
Finishing
Surface Modification—*see* Surface Technology
Forming 94129, 94182
Drawing, Extruding 94137, 94182
Rolling 94062, 94117, 94123, 94147, 94152

Seals
Reciprocating Seals 94099, 94121, 94155, 94183
Piston Rings 94134, 94158, 94183
Rotary Seals 94004, 94043, 94054, 94087, 94130, 94136, 94184, 94190
Elastomeric 94190
Face 94014, 94024, 94090, 94113, 94118, 94119, 94122, 94133, 94165, 94187
Labyrinth 94013, 94095
Mechanical 94014, 94024, 94030, 94090, 94114, 94119, 94130, 94136, 94179, 94187
Static 94126
O-Ring 94126

Surface Technology
Chemical Analytical Techniques 94202
AES(Auger) 94147, 94164, 94191
EPMA 94132
ESCA 94132, 94198
FTIR 94008, 94012, 94016, 94104, 94198
Raman 94202, 94205
SIMS 94117, 94147
XPS 94123, 94147, 94164
Coatings and Films 94037, 94049, 94069, 94074, 94080, 94081, 94085, 94086, 94162, 94202, 94205
Additive-Deposited Films 94007, 94022, 94023, 94104, 94188
Friction-Reducing Coatings 94022, 94034, 94049, 94060, 94074, 94081, 94162
Wear-Resistant Coatings 94022, 94034, 94049, 94060, 94074, 94081, 94162
Hardness 94001, 94061
Metallurgical Analysis 94075
Physical Examination Methods
Optical Microscopy 94144
SEM 94008, 94094, 94177
Surface Modification 94055, 94072
Annealing 94072
Ion Implantation 94076
Nitriding 94118
see also Metalworking
Surface Roughness 94001, 94006, 94014, 94041, 94055, 94069, 94078, 94112, 94129, 94174
Analysis and Models 94078, 94112
Measurement Methods 94078

Tribology of Equipment
Bearings—*see* Bearings
Brakes 94070
Cams 94055, 94148, 94158, 94178
Compressors (Gas)
Refrigerant 94015
Drives
Traction 94148
Gears 94020, 94029, 94045, 94048, 94148, 94178
Spur Gears 94045
Hydraulic Components 94089
Centrifugal Pumps, Motors 94114, 94184
Internal Combustion Engines 94009, 94018, 94055, 94092, 94158, 94163, 94181
Diesel 94009, 94031
Gasoline 94163
Machine Tools 94084, 94150, 94156, 94178
Magnetic Data Storage Systems 94012, 94069, 94071, 94080, 94086, 94111, 94197, 94198, 94199, 94200, 94201, 94202, 94203, 94204, 94205, 94206, 94207, 94208, 94209, 94210
Floppy Discs 94111, 94201
Hard Discs 94069, 94071, 94198, 94199, 94204, 94207, 94208, 94209, 94210
Heads 94199, 94201, 94204, 94207
Tapes 94086
Rocket Motors 94130

Tribology in Industry
Aerospace 94024, 92126, 94130, 94169
Airplanes 94155
Helicopters 94169
Space Vehicles 94126, 94130, 94155, 94186
Aluminum 94123, 94147
Magnetic Data Storage 94012, 94069, 94071, 94080, 94086, 94111, 94197, 94198, 94199, 94200, 94201, 94202, 94203, 94204, 94205, 94206, 94207, 94208, 94209, 94210
Metalworking—*see* Metalworking
Marine 94170
Paper 94160, 94175
Power Generation 94176
Nuclear 94114

Wear and Failure
Corrosion 94082, 94174
Fatigue 94139
Crack Propagation 94001, 94006, 94029, 94038, 94057
Rolling-Contact 94001, 94006, 94029, 94034, 94051, 94057, 94102, 94192
Fretting 94152, 94189
Scoring, Scuffing 94018, 94048, 94055, 94079, 94115, 94174
Wear 94139
Boundary Lubricated 94008, 94015, 94016, 94022, 94023, 94025, 94031, 94036, 94053, 94085, 94104, 94115, 94122, 94132, 94159, 94164, 94171, 94174, 94177, 94178, 94179, 94180, 94181, 94186, 94188, 94192, 94195, 94204
Solid Lubricated 94049, 94061, 94071, 94081, 94086
Unlubricated 94003, 94063, 94070, 94071, 94076, 94155, 94156, 94157, 94158, 94161, 94162, 94203
Wear Mechanisms 94034, 94094, 94112, 94125, 94139, 94177, 94178, 94189, 94204, 94206, 94208
Abrasive 94019, 94069, 94086, 94206, 94208
Adhesive 94206
Cavitation Erosion 94040
Corrosive 94031, 94082, 94152
Delamination 94034
Electrical 94082
Wear/Failure Testing Devices
Bench Tests 94189
Equipment Tests 94001, 94006, 94019, 94031, 94036, 94053, 94063, 94070, 94076, 94079, 94081, 94086, 94122, 94155, 94156, 94157, 94161, 94162, 94164, 94171, 94174, 94177, 94179, 94180, 94181, 94186, 94188, 94191, 94195, 94203, 94204, 94206, 94208
see also Maintenance

1994 Author Index

A

Abanto, M. 94173
Abbott, F. P. 94144
Ai, X. 94042
Ajayi, O. O. 94085
Akei, M. 94015
Albidewi, I. A. 94125
Allen, D. L. 94051
Anand, V. 94081
Aoki, Y. 94198
Arakere, N. K. 94101
Arita, M. 94162
Ashrafiuon, H. 94101
Athre, K. 94103

B

Baheti, S. K. 94043
Bair, S. 94083
Bajaj, K. K. 94160
Bales, J. R. 94142
Ball, J. 94123, 94147
Barman, B. N. 94145
Baumgartner, N. R. 94144
Belforte, G. 94183
Benfaremo, N. 94166
Bhushan, B. 94076, 94159, 94203
Biswas, S. 94092, 94103
Blake, J. W. 94029
Blanchet, T. A. 94071
Blau, P. J. 94096
Bolden, A. 94193
Braza, J. F. 94018
Brenner, M. S. 94141
Burton, R. A. 94052, 94113
Byers, J. 94173

C

Cahoon, J. M. 94127
Calabrese, S. J. 94053
Cann, P. M. 94073
Caracostas, C. A. 94094
Carpenter, J. F. 94146
Carpino, M. 94005, 94011, 94106
Casmer, S. 94201
Cavdar, B. 94188
Centers, P. W. 94039
Chang, L. 94056
Chang, W-R. 94049
Chao, K. K. 94036
Chatterjee, S. 94150
Chely, J. S. 94156
Chen, G. 94115
Chen, L. 94115
Chen, Y. M. 94156, 94093, 94105
Cheng, H. S. 94001, 94006, 94017, 94034, 94042, 94074, 94094
Cheng, J. 94091
Cheng, W. 94001, 94006
Chevallier, J. 94076
Childs, D. W. 94004
Cho, U. 94075
Choi, Y. 94019
Chou, R. G. 94064
Chung, Y-W. 94061, 94079
Conary, G. S. 94190
Connell, K. 94205
Cutiongco, E. C. 94079

D

Dai, F. 94065
Dai, Z. 94189
Dareing, D. W. 94107, 94110
Dellacorte, C. 94046, 94155, 94161
DeOtte, R. E. Jr. 94054
Deravi, F. 94125
DiMeo, D. 94176
Dinc, O. S. 94053
Divakar, R. 94122
Dixon, S. J. 94028
Dominguez, D. D. 94007
Dong, J. 94115, 94171
Draper, C. F. 94029
Duda, J. L. 94021
Dufour, J. W. 94184
Dufrane, K. F. 94134, 94148, 94154, 94178

E

Ebihara, B. 94186
Eiss, N. S. Jr. 94063
El-Gizawy, A. S. 94129
Enthoven, J. C. 94048
Epp, J. M. 94117
Erck, R. A. 94037, 94085
Erdemir, A. 94060, 94085
Erickson, R. C. 94134, 94148, 94154, 94178
Etsion, I. 94014, 94090
Ettles, C. M. 94053
Evenson, R. 94118

F

Fenske, G. R. 94085
Festa, R. P. 94117
Fine, M. E. 94034, 94074, 94094
Finn, W. E. 94110
Fisher, G. F. 94169
Flack, R. D. 94067
Flamand, L. 94010
Fleck, C. 94170, 94185
Friedland, B. 94077
Front, I. 94014
Furey, M. J. 94008, 94016

G

Gabriel, R. P. 94133
Gadangi, R. K. 94100
Galiano-Roth, A. S. 94168
Ghasemi, H. 94008
Giusti, P. 94150
Glaeser, W. A. 94134, 94148, 94154, 94178
Gondo, S. 94023
Gorin, N. 94170, 94185
Granam, E. E. 94181
Gschwender, L. J. 94188
Gupta, B. K. 94076, 94159
Gupta, M. 94092
Guzauskas, J. F. 94144

H

Habig, K-H. 94158

Hahn, E. J. 94044
Haizuka, S. 94045
Han, C-K. 94209
Han, T. 94088
Hanada, T. 94195
Hanchi, J. 94063
Hanson, R. 94118
Hanyaloglu, B. 94181
Harnoy, A. 94077
Hayashida, K. 94025
Hellgeth, J. W. 94008, 94016
Helmick, L. S. 94153, 94167, 94186
Heshmat, H. 94058, 94066
Hirano, F. 94047
Hobson, R. M. 94130
Höhn, B-R. 94020
Homma, Y. 94180
Hong, H. 94127, 94164
Hong, S-Z. 94135
Hopple, G. B. 94064
Hoult, D. P. 94009
Hsieh, J-H. 94085

I

Ichimaru, K. 94057
Iizuka, T. 94180
Imado, K. 94047
Itoh, Y. 94180

J

Jackson, A. 94048, 94056
Jang, D. Y. 94019, 94075
Jansen, R. 94186
Jarvis, N. L. 94170, 94185
Johnson, J. K. 94111
Jones, G. 94176
Jones, W. R. Jr. 94002, 94153, 94167, 94186
Jones, M. H. 94143
Jones, R. L. 94184
Jost, H. P. 94128

K

Kajdas, C. 94008, 94016
Kamalasan, S. 94129
Kaneta, M. 94030
Kannel, J. W. 94134, 94148, 94154, 94178
Kataoka, M. 94072
Kato, T. 94070
Kawashima, K. 94180
Keer, L. M. 94001, 94006
Keith, T. G. Jr. 94027
Kelsall, G. H. 94104
Kempinski, R. 94008
Key, W. E. 94119
Khonsari, M. M. 94032, 94065
Kim, J. 94100
Kimura, Y. 94038
Kiovsky, T. E. 94142
Kirk, R. G. 94043, 94108
Kishi, K. 94162
Kita, A. 94012
Kita, F. 94162
Klaus, E. E. 94021
Klusty, M. 94170, 94185
Ko, S. H. 94013, 94095
Koka, R. 94204
Komatsuzaki, S. 94116, 94180
Komiya, M. 94030
Kondo, H. 94012
Kornbrekke, R. E. 94194, 94196
Kostrzewsky, G. J. 94067
Kotlyar, Y. J. 94112
Ku, C-P. R. 94058, 94066

L

Lacey, P. I. 94031, 94174
Laghari, M. S. 94125
Lai, T. 94165
Lauer, J. L. 94071, 94205
Lee, H-S. 94163
Lee, S. C. 94078
Leefe, S. E. 94130
Lei, T. 94099
Li, D. 94061
Li, Z. 94149
Lian, Y. 94132
Liew, D. 94140
Liew, Y-F. 94205
Lin, J F. 94093, 94105
Lin, Z. G. 94055
Ling, F. F. 94049
Liou, J. 94075
Llewellyn R. J. 94139
Loewenthal, S. H. 94064
Lovell, M. R. 94032
Lu, S. 94149
Lu, W-Z. 94135
Lu, Z. Y. 94065
Lucca, D. A. 94084
Luo, X. 94115
Luoma, G. A. 94140
Luxmoore, A. R. 94125

M

Macpherson, I. 94190
Magario, A. 94070
Maki, K. 94198
Marangoni, R. D. 94032
Marciniec, A. 94097
Marsi, J. A. 94114
Massoudi, A. R. 94143
Masuko, M. 94186, 94195
Matsuda, K. 94030
Matsukawa, K. 94072
Matsuura, T. 94086, 94206
Matsuzaki, T. 94015
McKenzie, A. J. 94140
Mecklenburg, K. R. 94157
Medvertz, L. A. 94106, 94005
Melley, R. E. 94139
Metcalfe, R. 94126
Michael, O. 94090
Michaelis, K. 94020
Mitsuya, Y. 94207
Miura, A. 94047
Miyagawa, H. 94047
Mizuhara, K. 94015
Monahan, J. A. 94203
Morinushi, K. 94072
Morrison, G. L. 94013, 94054, 94095
Mowery, R. L. 94007
Murakami, Y. 94057

N

Nabata, Y. 94198
Naruse, C. 94045
Nataraj, C. 94101
Nau, B. S. 94130
Navon, S. 94024
Nelias, D. 94010
Nemoto, R. 94045
Newman, H. 94016
Ng, Q. 94071
Nichols, F. A. 94037, 94085
Nishimura, M. 94025, 94162
Nixon, B. J. 94209
Noble, H. 94173
Nwagboso, C. O. 94121

O

Okabe, H. 94195
Ovaert, T. C. 94003

P

Padavala, S. 94087
Page, N. M. 94168
Palazzolo, A. B. 94087, 94100
Paranjpe, R. S. 94088
Parkhurst, H. J. Jr. 94175
Paton, C. G. 94139
Peng, J-P. 94005, 94011, 94106
Peng, P. 94135
Pepper, S. V. 94186
Perez, R. J. 94141
Petersen, H. J. S. 94120
Peterson, J. 94110
Peterson, R. 94118
Placek, D. 94138
Poplawski, J. V. 94102
Prahl, J. 94002
Prasad, S. V. 94157
Prashad, H. 94082
Purdy, E. M. 94124

Q

Qi, W. 94098
Qiu, C. W. 94055
Qiu, Y. 94191

R

Rac, A. 94040
Radchik, V. S. 94112
Rao, K. N. 94082
Raparelli, T. 94183
Reich, R. A. 94117
Reichel, J. 94192
Ren, N. 94078
Rhode, D. L. 94013, 94095
Rhorer, R. L. 94084
Riga, A. T. 94127, 94151
Rigaut, B. 94156
Roberge, P. R. 94169
Roby, S. H. 94151, 94194, 94196
Roylance, B. J. 94125, 94143
Rumbarger, J. H. 94102
Ryan, S. 94087

S

Saba, C. S. 94036
Sainsot, P. 94010
Sakae, C. 94057
Sakaguchi, Y. 94068
Salant, R. F. 94024
Sampath, S. 94081
San Andres, L. 94004, 94059
Sankar, T. S. 94033, 94050
Schellekens, P. H. J. 94109
Schey, J. A. 94137, 94182
Schmid, S. R. 94068
Schoenherr, K. 94187
Schrama, R. C. 94152
Schreck, E. 94199
Schritz, B. 94002
Schult, D. L. 94037
Schulz, K. J. 94069, 94208
Schwartz, S. E. 94172
Seki, A. 94012
Selkirk, C. G. 94169
Seo, Y. W. 94084
Shankwalkar, S. 94138
Sharma, S. K. 94188
Shaw II, B. T. 94009
Shay, G. 94170, 94185
Sheu, S. 94062
Shi, Y. 94149
Shi, Z. E. 94115
Shima, M. 94038
Shirodkar, S. M. 94166
Shubkin, R. L. 94131
Simmons, J. E. L. 94028
Singhal, S. 94092
Sinha, A. N. 94103
Skarlos, L. 94166
Sliney, H. E. 94161
Smith, A. 94170, 94185
Smith, P. W. 94200
Smolenski, D. J. 94163, 94172
Sørensen, F. 94120
Spikes, H. A. 94073, 94104
Sproul, W. D. 94061
Srivatsan, T. S. 94150
Steinetz, B. M. 94046, 94155
Streator, J. L. 94111
Supp, J. A. 94194, 94196
Swanson, E. E. 94108

T

Talke, F. E. 94200, 94201, 94205
Tanuki, T. 94207
Tao, D. 94149
Taylor, D. V. 94067
Thames III, H. D. 94054
Thornton, M. C. 94123
Thurman, C. 94129
Torstenfelt, B. 94097
Toth, D. K. 94036
Treverton, J. A. 94123, 94147
Tripathy, B. S. 94008
Tsai, H-C. 94209
Tung, S. C. 94022
Turner, N. H. 94007
Tzenov, P. I. 94033, 94050

U

Uchizawa, M. 94086, 94206
Uematsu, T. 94116
Ueyama, N. 94047

V

Vallely, P. 94087
Velardocchia, M. 94183
Vinci, J. N. 94127
Viswanathan, K. V. 94069, 94208

W

Wahl, M. H. 94200, 94201
Wallis, R. 94179
Wang, C-B. 94177
Wang, C. 94098
Wang, C. C. J. 94021
Wang, J. M. 94109
Wang, Q. 94034, 94074, 94094
Wang, S. S. 94022, 94163
Wang, X. 94191
Wang, Y. H. 94044
Wang, Z. 94191
Wasser, J. R. 94136
Wayne, S. F. 94081
Webster, M. N. 94048, 94056
Weick, B. L. 94016
Wen, S-Z. 94177
Wenger, W. L. 94064
Wensel, R. 94126
Wietzel, U. 94041
Wilson, W. R. D. 94062, 94068
Winoto, S. H. 94089
Wohltjen, H. 94170, 94185
Wolff, P. 94024
Wong, M-S. 94061
Woydt, M. 94158
Wu, J-P. 94003
Wu, S. 94017
Wu, X. 94098
Wu, Z. 94107

X

Xiong, R. 94171
Xu, H. 94099
Xu, S. 94035
Xue, Q. 94132

Y

Yamada, S. 94198
Yamamoto, K. 94025
Yamamoto, Y. 94023
Yanagisawa, M. 94080, 94202, 94210
Yang, Y. Q. 94055
Yang, Z. 94004
Yao, J. 94171
Yates, N. C. 94142
Yeung, K. K. 94140
Yohanand, K. 94089
Yoshizaki, M. 94045
Young, L. A. 94119
Yu, Q. 94027
Yust, C. S. 94026

Z

Zhang, J. T. 94055
Zhao, X. 94098
Zhu, Y. Y. 94104
Zhuang, Y. Q. 94055